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DATE MAILED: 10/19/2006

APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO	. CONFIRMATION NO.		
10/630,847		07/31/2003	Akira Kawai	241124US3	S3 1987		
22850	7590	10/19/2006		EXA	MINER		
C. IRVIN N			SINE	SINES, BRIAN J			
OBLON, SP.		·	IER & NEUSTADT, P.C.	ART UNIT	ART UNIT PAPER NUMBER		
ALEXANDI	RIA, VA	22314		1743			

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/630,847	KAWAI ET AL.	
Office Action Summary	Examiner	Art Unit	•
	Brian J. Sines	1743	
The MAILING DATE of this communication appeared for Reply	ppears on the cover sheet t	vith the correspondence address -	-
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailling date of this communication. - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may a d will apply and will expire SIX (6) MO ute, cause the application to become a	ICATION. The reply be timely filed ENTHS from the mailing date of this communical ABANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on			
2a) This action is FINAL . 2b) ⊠ Th	is action is non-final.		
3) Since this application is in condition for allow	rance except for formal ma	tters, prosecution as to the merits	; is
closed in accordance with the practice under	Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.	
Disposition of Claims			
4) ☐ Claim(s) 1-22 is/are pending in the application 4a) Of the above claim(s) is/are withdreds 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-22 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and an are subject.	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examir 10) The drawing(s) filed on is/are: a) acceptant may not request that any objection to the Replacement drawing sheet(s) including the correct at 1) The oath or declaration is objected to by the Replacement of the specific spec	ccepted or b) objected to be drawing(s) be held in abeyone ction is required if the drawing	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.12	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of the priority application from the International Bure. * See the attached detailed Office action for a list	nts have been received. nts have been received in iority documents have bee au (PCT Rule 17.2(a)).	Application No n received in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	Summary (PTO-413) o(s)/Mail Date	
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of 6) Other: _	Informal Patent Application	

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-22 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1 – 22 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships are: Regarding claim 1, it is unclear as to how the fine channel device and the fluid supply device components are positioned with respect to one another in order to function. Are the two components integrated and stacked together? Are both of the components circular or disk shaped to facilitate proper radial alignment for their respective channels? The structure which goes to make up the device must be clearly and positively specified. The structure must be organized and correlated in such a manner as to present a complete operative device. Furthermore, a feature which is taught as critical in a specification should be recited in the claims (see MPEP § 2164.08(c)).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The additional cited prior art teach related microfluidic devices incorporating similar structural configurations.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian J. Sines whose telephone number is (571) 272-1263. The examiner can normally be reached on Monday - Friday (11 AM - 8 PM EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill A. Warden can be reached on (571) 272-1267. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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